

PATENT COOPERATION TREATY

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From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT

(PCT Rule 71.1)

To: DINI, Roberto c/o Metroconsult S.r.l. Piazza Cavour 3 I-10060 none ITALIE		Date of mailing (day/month/year) 03.09.2004	
Applicant's or agent's file reference ITC003		IMPORTANT NOTIFICATION	
International application No. PCT/IB 03/01195	International filing date (day/month/year) 02.04.2003	Priority date (day/month/year) 03.04.2002	
Applicant ITEC S.R.L. et al.			



1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.



Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized Officer Finnie, A Tel. +49 89 2399-8251	
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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference ITC003	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)	
International application No. PCT/IB 03/01195	International filing date (<i>day/month/year</i>) 02.04.2003	Priority date (<i>day/month/year</i>) 03.04.2002
International Patent Classification (IPC) or both national classification and IPC H04Q7/30		
Applicant ITEC S.R.L. et al.		
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of 2 sheets.</p>		
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the opinion</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>		
Date of submission of the demand 03.11.2003	Date of completion of this report 03.09.2004	
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized Officer Falò, L Telephone No. +49 89 2399-7108 	

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/B 03/01195

I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

Description, Pages

1-8 as originally filed

Claims, Numbers

1-8 filed with telefax on 25.08.2004

Drawings, Sheets

1/1 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:
- ☐ the drawings, sheets:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. **PCT/B 03/01195**

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-8
	No: Claims	
Inventive step (IS)	Yes: Claims	1-8
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-8
	No: Claims	

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following document:

D1: EP-A-0 766 427 (NOKIA MOBILE PHONES LTD) 2 April 1997 (1997-04-02)

2. The document D1 is regarded as being the closest prior art to the subject-matter of **Claim 1** and shows a wireless telecommunications network for mobile users, in which a gateway is connected to a mobile switching center, on one side, and to a LAN, on the other; the LAN is then connected to a plurality of mobile and fixed terminals.

The subject-matter of **Claim 1** differs from the disclosure of D1 in that the gateway is replaced by an apparatus (SCB) connected with a Radio Network Controller, and hence with a wireless access subsystem, and comprising additional cable connections.

The subject-matter of **Claim 1** is therefore new (Article 33(2) PCT).

3. The problem to be solved by the present invention may be regarded as providing a wired communication channel to a mobile terminal in the access subsystem of a wireless telecommunication network; said problem is solved by providing access subsystem apparatuses (SCB) connected with radio network controllers, each SCB being provided with cable connections allowing communication with the mobile terminal.

The system disclosed in D1 only provides wireless connection (via a wireless interface and a wired LAN) between the mobile terminals and the telecommunication network. Thus, the disclosure of D1 does not solve the problem addressed by the subject-matter of **Claim 1**.

Hence, the combination of features of **Claim 1** is not disclosed, nor rendered obvious by D1.

The subject-matter of **Claim 1** therefore involves an inventive step (**Article 33(3) PCT**).

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/IB 03/01195

The same considerations as made in respect of **Claim 1** are also valid for independent **Claim 8**, which contains a method whose steps are corresponding to the features of **Claim 1**.

Therefore, the subject-matter of **Claim 8** is novel and involves an inventive step (**Articles 33(2) and 33(2) PCT**).

Claims 2-7 are dependent on Claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

4. It is noted that the cited document D1 has not been acknowledged nor discussed in the opening part of the description. Hence, the requirements of **Rule 5.1(a)(ii) PCT** have not been met.

- ITC003 -

9

10/511850
DT01 Rec'd PCT/PTO 01 OCT 2004CLAIMS

1. A telecommunications network for mobile users, said telecommunications network for mobile users (UNET) providing wireless communication to wireless mobile user subsystems (STU) by means of an access subsystem (STA+) and a transport subsystem (STT), said access subsystem (STA+) comprising:

- 5 - one or more radio base stations (SRB) exchanging data signals and voice (TS) with said wireless mobile user subsystems (STU) through a radio user-access communication interface (Uu),
- one or more radio network controller (CRR) controlling operation of one or more of said radio base stations (SRB), said radio network controller
- 10 connecting said access subsystem (STA+) to said transport subsystem (STT) by means of a transport-access communication interface (Iu),

characterized in that said access subsystem comprises additional apparatuses (SCB) for connection between said wireless mobile user subsystems (STU) and a radio network controller (CRR), and in that said access subsystem (STA+) also comprises additional

15 cable connections between said additional apparatus (SCB) and said wireless mobile user subsystems (STU) for allowing the communication.

2. A telecommunications network for mobile users, according to claim 1, characterized in that said additional apparatuses (SCB) communicate with said radio network controllers (CRR) through the same interface (Iub) used by said radio base

20 stations (SRB) to communicate with said radio network controllers (CRR).

3. A telecommunications network for mobile users according to claims 1, characterized in that additional stations are preset for connection to said additional apparatuses through said cable connections and that said additional stations are provided with a socket for connecting the user terminal.

25 4. A telecommunications network for mobile users, according to claim 1, characterized in that additional stations are preset for connection to said additional apparatuses through said cable connections and that said additional stations are provided with low power wireless technologies such as bluetooth.

30 5. A telecommunications network for mobile users according to claim 3 or 4, characterized in that said additional stations are equipped with an electric socket.

6. A telecommunications network for mobile users, according to one or more of

- ITC003 -

10

the previous claims, characterized in that the access to said telecommunications network and the communications between elements of said telecommunication network are managed according to the UMTS standard (Universal Mobile Telecommunications System).

5 7. A telecommunications network for mobile users, according to one or more of the previous claims, characterized in that the access to said telecommunications network and the communications are managed according to a standard for mobile telecommunications of the third generation pertaining to the family IMT2000.

8. A method for the communication of mobile users subsystems (STU) in a
10 telecommunications network for mobile users (UNET), said telecommunications network for mobile users (UNET) providing wireless communication to wireless mobile user subsystems (STU) by means of an access subsystem (STA+) and a transport subsystem (STT), said access subsystem (STA+) comprising:

- one or more radio base stations (SRB) exchanging data signals and voice (TS)
15 with said wireless mobile user subsystems (STU) through a radio user-access communication interface (Uu),

- one or more radio network controller (CRR) controlling operation of one or more of said radio base stations (SRB), said radio network controller connecting said access subsystem (STA+) to said transport subsystem (STT)
20 by means of a transport-access communication interface (Iu), and

characterized in that said method provides for additional apparatuses (SCB) for connection between said wireless mobile user subsystems (STU) and a radio network controller (CRR), and cable connections ~~allowing the communication~~ between said additional apparatus (SCB) and said wireless mobile user subsystems (STU) for allowing
25 the communication.

AMENDED SHEET

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